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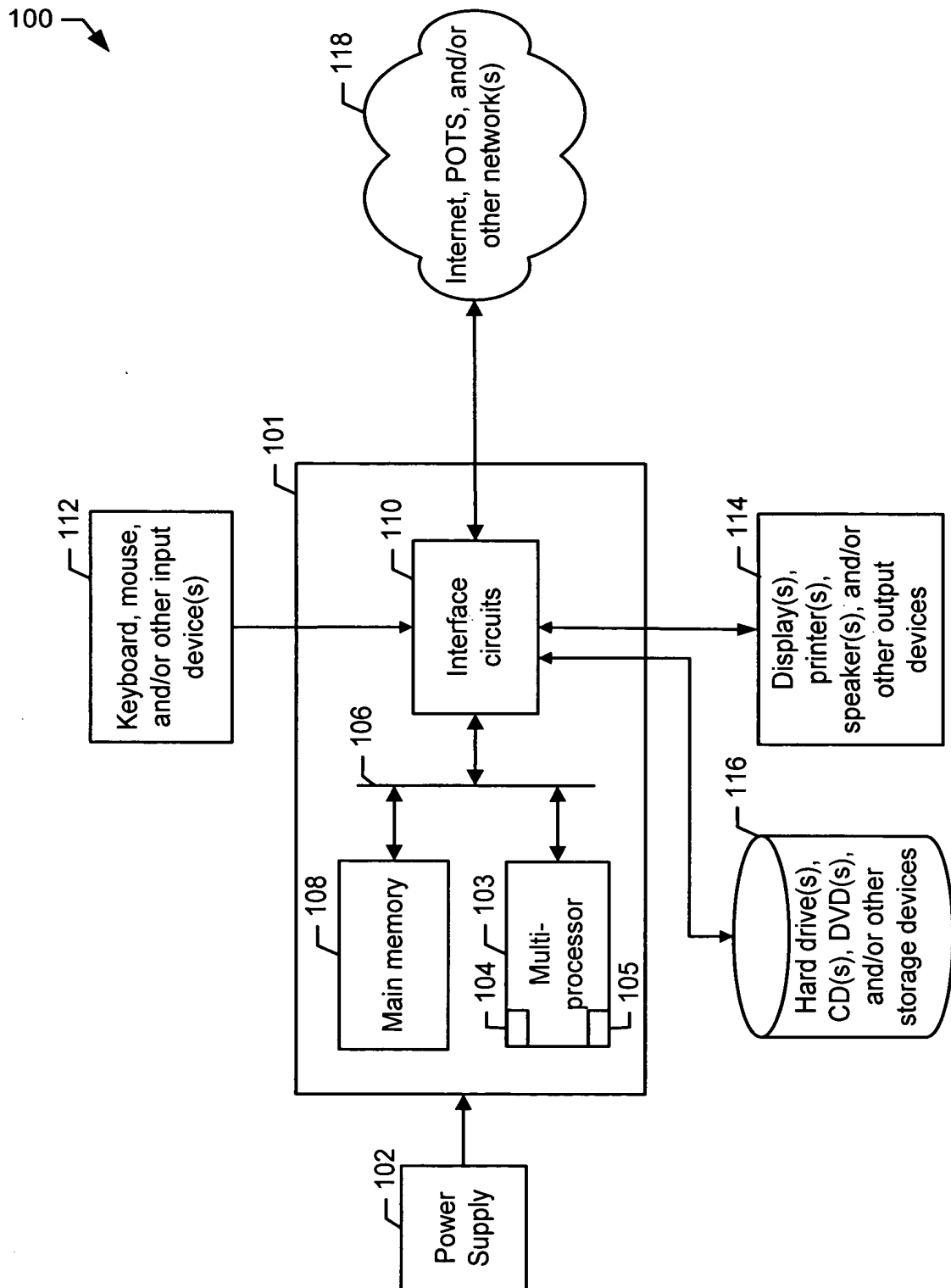


FIG. 1

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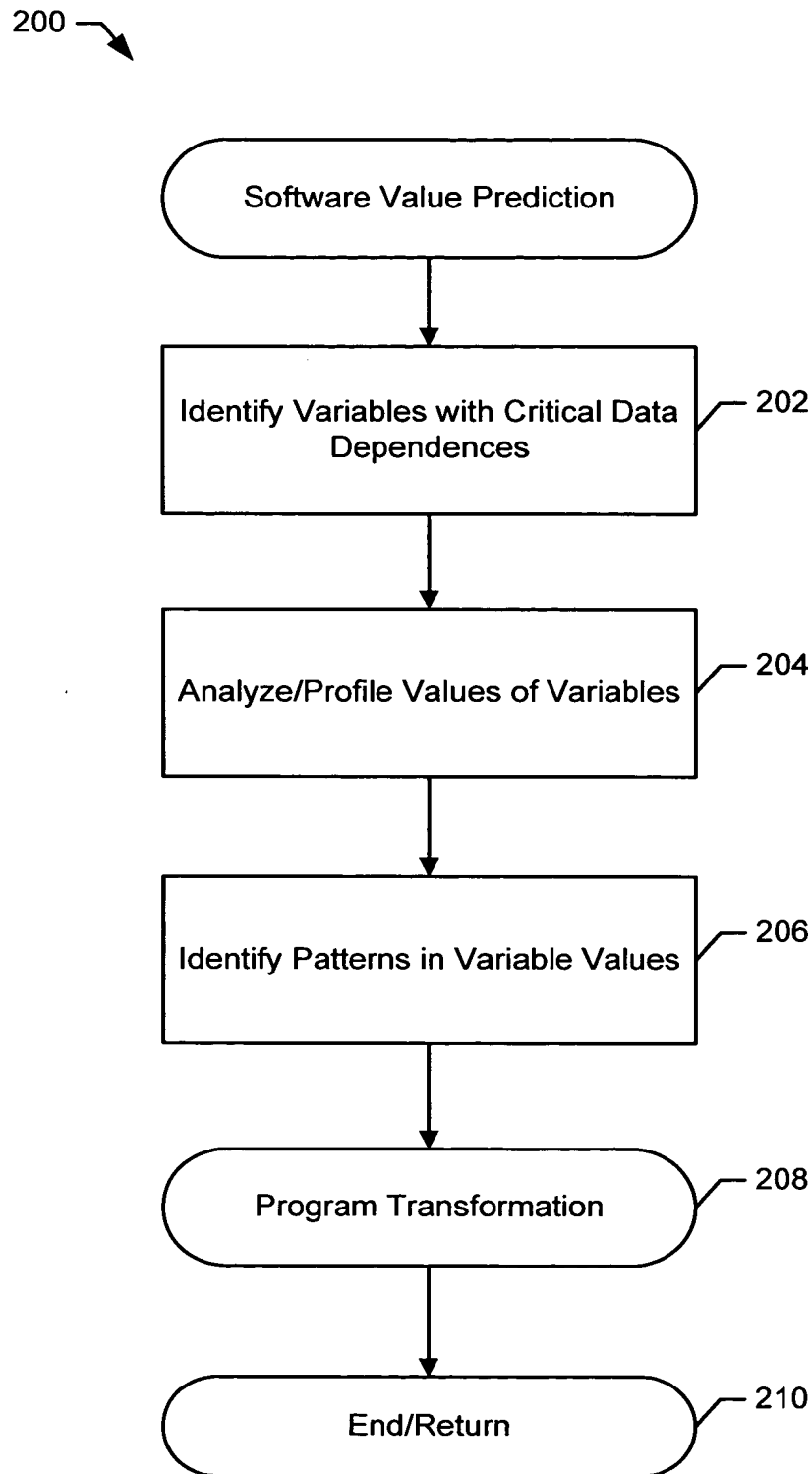


FIG. 2

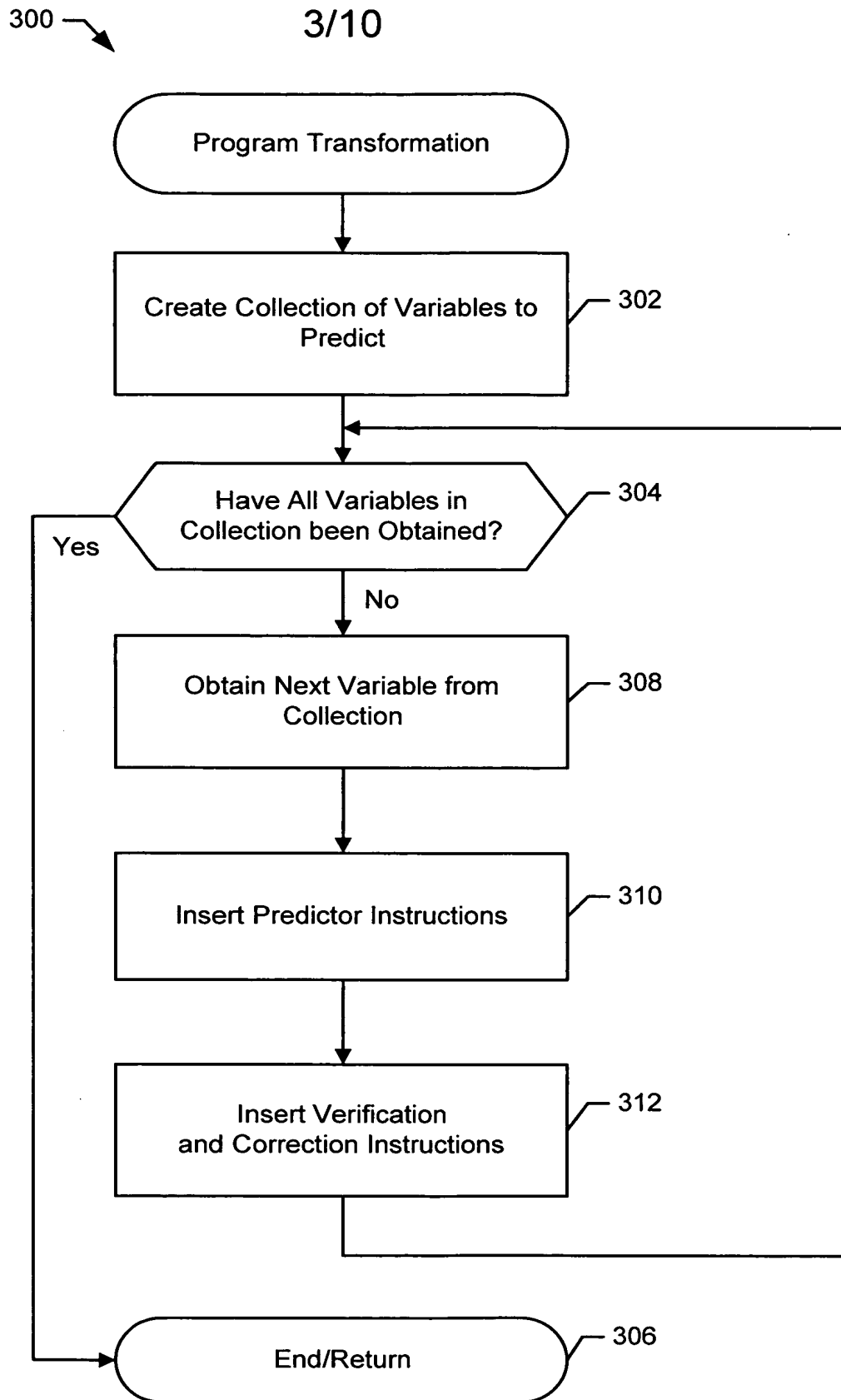


FIG. 3

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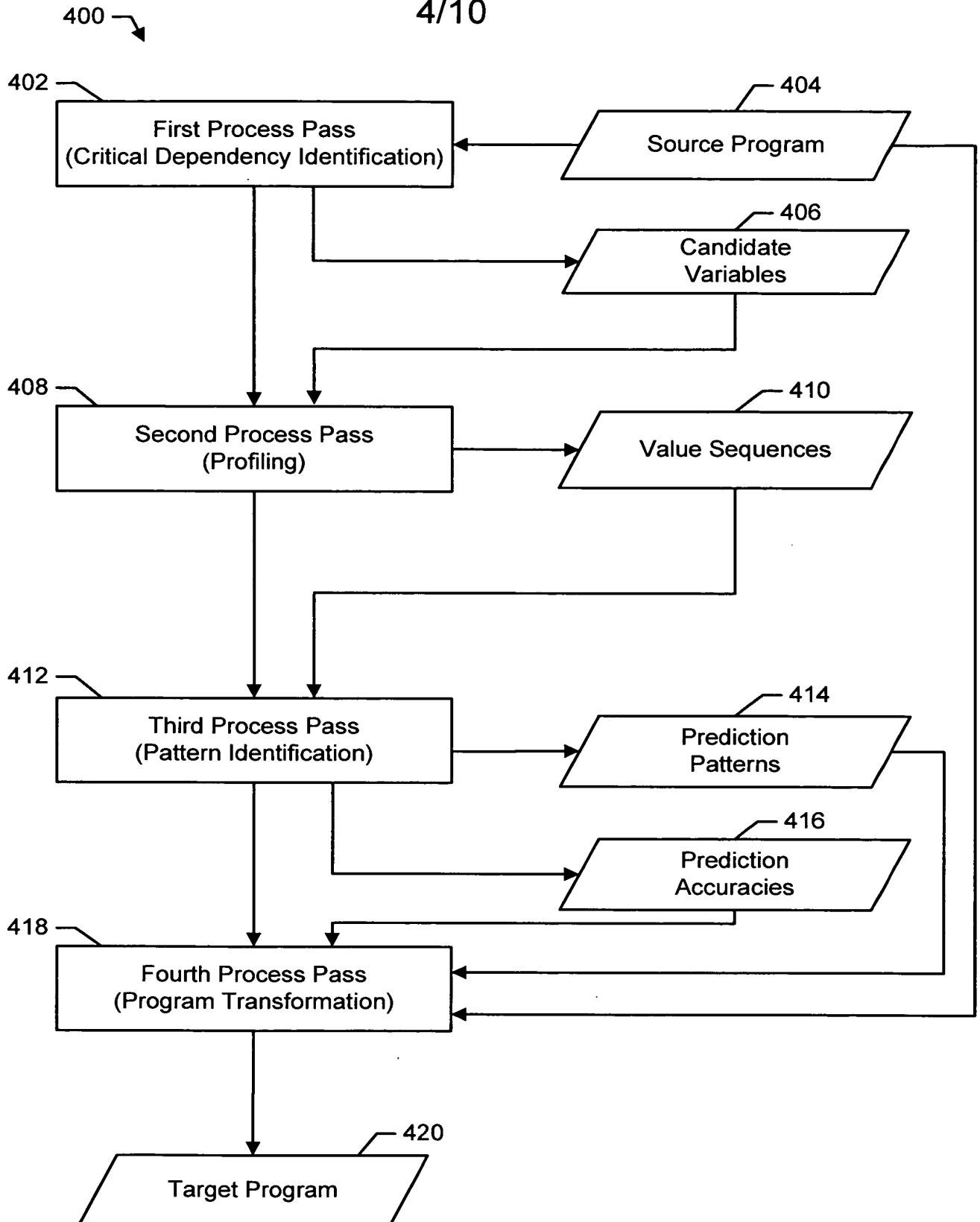



FIG. 4


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500 

```
502:  foo( x );  
504:  S1;  
506:  x = bar();  
508:  S2;  
510:  S3;  
512:  tar( x );  
514:  S4;
```

FIG. 5


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600 

```
602:   pred_x = pred( );  
604:   tar( pred_x );  
502:   foo( x );  
504:   S1;  
506:   x = bar();  
508:   S2;  
510:   S3;  
606:   if( x != pred_x )  
608:       recover_tar( x );  
514:   S4;
```

FIG. 6


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700 

```
702:   L:  S1;  
704:     fork( L );  
706:     S2;  
708:     foo( x );  
710:     S3;  
712:     x = bar( );  
714:     S4;  
716:     if (cont) goto L;
```

FIG. 7

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800 

```
802:      pred_x = x;
702:  L:  S1;
804:      x = pred_x;
806:      pred_x = pred( );
704:      fork( L );
706:      S2;
708:      foo( x );
710:      S3;
712:      x = bar( );
714:      S4;
808:      if (x != pred_x)
810:          pred_x = x;
716:      if (cont) goto L;
```

FIG. 8



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900 

901: Main Thread:

902:     L:   S1;  
904:       fork( L );  
906:       S2;  
910:       foo( x );  
914:       S3;  
918:       x = bar( );  
922:       S4;  
926:       if (cont) goto L;

903: Speculative Thread:

908:     L:   S1;  
912:       fork( L );  
916:       S2;  
920:       foo( x );  
924:       S3;  
928:       x = bar( );  
930:       S4;  
932:       if (cont) goto L;

FIG. 9

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1000 →

1001: Main Thread:

```
1002:    pred_x = x;
1004:    L:  S1;
1006:    x = pred_x;
1008:    pred_x = pred( );
1010:    fork( L );
1012:    S2;
1016:    foo( x );
1020:    S3;
1024:    x = bar( );
1028:    S4;
1032:    if (x != pred_x)
1036:        pred_x = x;
1040:    if (cont) goto L;
```

1009: Speculative Thread:

```
1014:    L:  S1;
1018:    x = pred_x;
1022:    pred_x = pred( );
1026:    fork( L );
1030:    S2;
1034:    foo( x );
1038:    S3;
1042:    x = bar( );
1044:    S4;
1046:    if (x != pred_x)
1048:        pred_x = x;
1050:    if (cont) goto L;
```

FIG. 10